

WHAT IS CLAIMED IS:

1. A projector including a light source, a light modulating device that modulate, in accordance with image information, beams emitted from the light source to form an optical image, and a case that accommodates the light source and the light modulating devices, and the projector enlarges and projects the optical image formed by the light modulating devices, the projector including

a leg portion that are disposed so as to be extendable from and retractable to an outer peripheral surface of the case to adjust the projection position of the enlarged and projected optical image,

an intake opening formed in the surface of the case disposed with the leg portions, and

an intake fan that is disposed inside the case near the intake opening and introduces cooling air from the outside of the case,

wherein an intake surface of the intake fan is disposed at an inclination with respect to the plane of the case in which the intake opening is formed.

2. The projector according to claim 1, further including
a power supply circuit for supplying power to the light source and the light modulating devices,

and a light source drive circuit for driving the light source,

wherein the intake fan is used in a cooling flow path that cools the power supply circuit and the light source drive circuit.

3. The projector according to claim 2, wherein the cooling flow path of cooling air introduced by the intake fan is set independent from another cooling flow path.

4. The projector according to claim 3, wherein the cooling flow path is configured to allow the cooling air to circulate along the surface of the case in which the intake opening is formed.

5. The projector according to one of claim 3 or 4, wherein the cooling flow path is partitioned by tabular bodies disposed vertically from an inner surface of the case.

6. The projector according to any of claims 2 through 5, wherein the power supply circuit and the light source drive circuit are surrounded by cylindrical air-guiding bodies and the cooling air from the intake fan is supplied to the inside of each air-guiding body.

7. The projector according to claim 6, wherein the intake fan is attached to the air-guiding bodies.

8. The projector according to claim 1, wherein
 - the intake opening is a first intake opening,
 - the intake fan is a first intake fan,
 - a discharge opening through which air inside the case is discharged to the outside of the case is disposed in a side of the case, and
 - the projector further includes
 - a second intake opening disposed in the case separately from the first intake opening,
 - a second intake fan that is disposed near the second intake opening and introduces cooling air from the outside of the case,
 - a first cooling system that uses the second intake fan to introduce, through the second intake opening to the inside of the case, air from the outside of the case, circulates the air to the discharge opening so that the air is discharged through the discharge opening to the outside of the case, to thereby cool the light modulating devices and the light source, and
 - a second cooling system that uses the first intake fan to introduce, through the first intake opening to the inside of the case, air from the outside of the case, circulates the air to the discharge opening so that the air is discharged through the discharge opening to the outside of the case, to thereby cool the power supply circuit and the light source drive circuit.
9. The projector according to claim 8, wherein the first cooling air flow and the second cooling air flow are discharged through different regions in the discharge opening.
10. The projector according to one of claim 8 or 9, wherein
 - the power supply circuit is disposed inside a cylindrical first air-guiding body,
 - the light source drive circuit is disposed inside a cylindrical second air-guiding body,
 - part of the second cooling air flow is introduced to the inside of the first air-guiding body and another part of the second cooling air flow is introduced to the inside of the second air-guiding body, and
 - the air flow circulating through the first air-guiding body and the air flow circulating through the second air-guiding body are discharged through different regions in the discharge opening.
11. The projector according to any of claims 8 through 10, wherein an intake surface of the first intake fan is disposed at an inclination so as to be distanced from the first intake opening as it approaches the discharge opening.